DECLARATION FOR PATENT APPLICATION Docket Number: HUV-039.01 As a below named inventor, I hereby deci re that: My residence, post office address and tizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: Direct Growth of Nanotubes, and Their Use in Nanotweezers the specification of which (check one) is attached hereto. was filed on Date September 28, 2001 as United States Application Number or PCT International Application Number 09/966,812, and was amended on Date __ (if applicable). I hereby state that J have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulation, § 1.56. I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed. Prior Foreign Application(s) Priority Claimed ☐ No ☐ Yes (Number) (Country) (Day/Month/Year Filed) ☐ No (Number) (Country) (Day/Month/Year Filed) I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States Provisional application(s) listed below. September 29, 2000 (Application Number) (Filing Date) (Application Number) (Filing Date) I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application. (Application Number) (Filing Date) (Status: patented, pending, abandoned) (Application Number) (Filing Date) (Status: patented, pending, abandoned) I hereby appoint Beth E. Arnold, Reg. No. 35,430; Isabelle Clauss, Reg. No. 47,326; Stephen B. Deutsch, Reg. No. 46,663; William D. DeVaul Reg. No. 42,7183; Daniel P. Gaudet, Reg. No. 48,584; Robert W. Gauthier, Reg. No. 35,153; Jason Gish, Reg. No. 42,581; Dana Gordon, Reg. No. 44,719; Robert A. Greenberg, Reg. No. 44,133; Jennifer K. Holmes, Reg. No. 46,778; Scott E. Kamholz, Reg. No. 48,543; David A. Lane, Reg. No. 39,261; W. Hugo Liepmann, Reg. No. 20,407; Jim Olesen, Reg. No. 46,967; Kevin A. Oliver, Reg. No. 42,049; Chinh H. Pham, Reg. No. 39,329; Jeffrey M. Sears, Reg. No. 48,440; Philip C. Swain, Reg. No. 32,376; Kingsley L. Taft, Reg. No. 43,946; John Quisel, Reg. No. 47,874; Anita Varma, Reg. No. 43,221; Sharon Webb, Reg. No. 47,172; and John L. Welch, Reg. No. 28,129 as attorneys/agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. Address all telephone calls to Dana M. Gordon at telephone number (617) 832-1000. Address all correspondence to: Customer Id No: 25181 Patent Group Foley Hoag & Eliot LLP One Post Office Square Boston, MA. 02109-2170 I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. Full name of sole or first inventor (given name, family name): Charles M. Lieber Inventor's signature: Residence: Lexington, MA Citizenship: U.S.A Post Office Address: 27 Hayes Avenue, Lexington, MA 02420

Additional inventors are being named separately numbered sheets attached hereto.

rull name of second joint inventor (given name, family name): Jason H. Hafner		
Inventor's signature:	Date:	
Residence: Houston, TX	Citizenship: U.S.A.	
Post Office Address: 7500 Kirby Drive, #1520, Houston, TX 77030		
Full name of third joint inventor (given name, family name): Chin Li Cheung		
Inventor's signature:	Date:	
Residence: <u>Cambridge</u> , <u>MA</u>	Citizenship: China	
Post Office Address: 1087 Murrieta Blvd., #141, Livermore, CA 94550		
Full name of fourth joint inventor (given name, family name): Philip Kim Inventor's signature: Residence: Lafayette, CA		
Post Office Address: 949 East Street, #202, Lafayette, CA 94549	Citizenship:	
Total Street Addition. 517 East Bucet, #202, Latayette, CA 54347		
Full name of fifth joint inventor (given name, family name):		
Inventor's signature:	Date:	
Residence.	Citizenship:	
Post Office Address:		

DECLARATION FOR PATENT APPLICATION Docket Number: HUV-039.01 As a below named inve reby declare that: My residence, post office address and orizenship are as stated below next to my name. sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of I believe I am the original the subject matter which is claimed and for which a patent is sought on the invention entitled: Direct Growth of Nanotubes, and Their Use in Nanotweezers the specification of which (check one) is attached hereto. was filed on Date September 28, 2001 as United States Application Number or PCT International Application Number 09/966,812, and was amended on Date (if applicable). I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulation, § 1.56. I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed. Prior Foreign Application(s) Priority Claimed ☐ Yes ☐ No (Number) (Country) (Day/Month/Year Filed) ☐ Yes □ No (Number) (Country) (Day/Month/Year Filed) I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States Provisional application(s) listed below. September 29, 2000 (Application Number) (Filing Date) (Application Number) (Filing Date) Inereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Gode, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application. (Application Number) (Filing Date) (Status: patented, pending, abandoned) (Application Number) (Filing Date) (Status: patented, pending, abandoned) Hereby appoint Beth E. Arnold, Reg. No. 35,430; Isabelle Clauss, Reg. No. 47,326; Stephen B. Deutsch, Reg. No. 46,663; William D. DeVaul Reg. No. 45,483; Daniel P. Gaudet, Reg. No. 48,584; Robert W. Gauthier, Reg. No. 35,153; Jason Gish, Reg. No. 42,581; Dana Gordon, Reg. No. 44,719; Robert A. Greenberg, Reg. No. 44,133; Jennifer K. Holmes, Reg. No. 46,778; Scott E. Kamholz, Reg. No. 48,543; David A. Lane, Reg. No. 39,261; W. Hugo Liepmann, Reg. No. 20,407; Jim Olesen, Reg. No. 46,967; Kevin A. Oliver, Reg. No. 42,049; Chinh H. Pham, Reg. No. 39,329; Jeffrey M. Sears, Reg. No. 48,440; Philip C. Swain, Reg. No. 32,376; Kingsley L. Taft, Reg. No. 43,946; John Quisel, Reg. No. 47,874; Anita Varma, Reg. No. 43,221; Sharon Webb, Reg. No. 47,172; and John L. Welch, Reg. No. 28,129 as attorneys/agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. Address all telephone calls to Dana M. Gordon at telephone number (617) 832-1000. Address all correspondence to: Customer Id No: 25181 Patent Group Foley Hoag & Eliot LLP One Post Office Square Boston, MA. 02109-2170 I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. Full name of sole or first inventor (given name, family name): Charles M. Lieber Inventor's signature: Date: Residence: Lexington, MA Citizenship: U.S.A Post Office Address: 27 Hayes Avenue, Lexington, MA 02420

Additional inventors are being named separately numbered sheets attached hereto.

The hame of second joint inventor (given hame, family name): Jason H. Hatner		
Inventor's signature: In 72	Date: March /11/02	
Residence: Houston, TX	Citizenship: U.S.A.	
Post Office Address: 3733 Bellefontaine Street, Houston, TX 77025		_
Full name of third joint inventor (given name, family name): Chin Li Cheung Inventor's signature: Residence: Cambridge, MA Post Office Address: 1087 Murrieta Blvd., #141, Livermore, CA 94550	Date: Citizenship: China	
Full name of fourth joint inventor (given name, family name): Philip Kim Inventor's signature:	Date:	
Residence: New York, NY	Citizenship:	_
Post Office Address: 452 Riverside Drive, Apt. 22, New York, NY 10027		
Full name of fifth joint inventor (given name, family name):	Date:Citizenship:	_

DECLARATION FOR PATENT APPLICATION Docket Number: HUV-039.01 As a below named inventor, I hereby clare that: My residence, postoffice address id citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: Direct Growth of Nanotubes, and Their Use in Nanotweezers the specification of which (check one) is attached hereto. was filed on Date September 28, 2001 as United States Application Number or PCT International Application Number 09/966,812, and was amended on Date____ (if applicable). I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulation, § 1.56. I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed. Prior Foreign Application(s) Priority Claimed ☐ No ☐ Yes (Number) (Day/Month/Year Filed) (Country) ☐ Yes □ No (Number) (Day/Month/Year Filed) (Country) Imereby claim the benefit under Title 35, United States Code, § 119(e) of any United States Provisional application(s) listed below. September 29, 2000 (Application Number) (Filing Date) (Application Number) (Filing Date) I liereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Cade, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application. (Application Number) (Filing Date) (Status: patented, pending, abandoned) (Application Number) (Filing Date) (Status: patented, pending, abandoned) I hereby appoint Beth E. Arnold, Reg. No. 35,430; Isabelle Clauss, Reg. No. 47,326; Stephen B. Deutsch, Reg. No. 46,663; William D. DeVaul Reg. No. 42483; Daniel P. Gaudet, Reg. No. 48,584; Robert W. Gauthier, Reg. No. 35,153; Jason Gish, Reg. No. 42,581; Dana Gordon, Reg. No. 44,719; Robert A. Greenberg, Reg. No. 44,133; Jennifer K. Holmes, Reg. No. 46,778; Scott E. Kamholz, Reg. No. 48,543; David A. Lane, Reg. No. 39,261; W. Hugo Liepmann, Reg. No. 20,407; Jim Olesen, Reg. No. 46,967; Kevin A. Oliver, Reg. No. 42,049; Chinh H. Pham, Reg. No. 39,329; Jeffrey M. Sears, Reg. No. 48,440; Philip C. Swain, Reg. No. 32,376; Kingsley L. Taft, Reg. No. 43,946; John Quisel, Reg. No. 47,874; Anita Varma, Reg. No. 43,221; Sharon Webb, Reg. No. 47,172; and John L. Welch, Reg. No. 28,129 as attorneys/agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. Address all telephone calls to Dana M. Gordon at telephone number (617) 832-1000. Address all correspondence to: Customer Id No: 25181 Patent Group Foley Hoag & Eliot LLP One Post Office Square Boston, MA. 02109-2170 I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. Full name of sole or first inventor (given name, family name): Charles M. Lieber

Additional inventors are being named separately numbered sheets attached hereto.

Date:

Citizenship: U.S.A

Inventor's signature:

Residence: Lexington, MA

Post Office Address: 27 Hayes Avenue, Lexington, MA 02420

Full name of second joint inventor (given name, family name): Jason H. Hafner	
Inventor's signature:	Date:
Residence: Houston, TX	Citizenship: U.S.A.
Post Office Address: 3733 Bellefontaine Street, Houston, TX 77025	
Full name of third joint inventor (given name, family name): Chin Li Cheung	Date: 2-28-20°
Inventor's signature: Lehereng Din Lin	
Residence: Cambridge, MA	Citizenship: China
Post Office Address: 1087 Murrieta Blvd., #141, Livermore, CA 94550	
Full name of fourth joint inventor (given name, family name): Philip Kim	
Inventor's signature:	Date:
Residence: New York, NY	Citizenship:
Post Office Address: 452 Riverside Drive, Apt. 22, New York, NY 10027	
Full name of fifth joint inventor (given name, family name):	
Inventor's signature:	Date:
Residence:	Citizenship:
Post Office Address:	

MAR 2 2 2002	<u> </u>		
As a below named inventor, I hereby	·	ON FOR PATENT APPLICATION	Docket Number: HUV-039.01
My residence, post office address and	citizenship are as stated below	w next to my name.	
	ole inventor (if only one name	is listed below) or an original first and joint invento	or (if plural names are listed below) of
	Direct Growth of Na	anotubes, and Their Use in Nanotweezers	
the specification of which (check one			
☐ is attached he ☐ was filed on and was amende	Date September 28, 2001 as U	Jnited States Application Number or PCT Internation	al Application Number 09/966,812,
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Prior Foreign Application(s)			Priority Claimed
(Alumba)			☐ Yes ☐ No
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60/237,347	September 29, 2000		
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Greenberg, Reg. No. 44,133; Jennifer Liepmann, Reg. No. 20,407; Jim Olese 48,440; Philip C. Swain, Reg. No. 32,3	K. Holmes, Reg. No. 46,778; S. K. Holmes, Reg. No. 46,967; Kevin A. 176; Kingsley L. Taft, Reg. No. 28, 129 as attorneys/a	Reg. No. 47,326; Stephen B. Deutsch, Reg. No. 46,666 g. No. 35,153; Jason Gish, Reg. No. 42,581; Dana Go Scott E. Kamholz, Reg. No. 48,543; David A. Lane, I Oliver, Reg. No. 42,049; Chinh H. Pham, Reg. No. 30, 43,946; John Quisel, Reg. No. 47,874; Anita Varmagents to prosecute this application and to transact all	33; William D. DeVaul Reg. No. ordon, Reg. No. 44,719; Robert A. Reg. No. 39,261; W. Hugo 39,329; Jeffrey M. Sears, Reg. No. 0. Reg. No. 42,212 Cl. St. No. 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,
Address all telephone calls to Dana M.	Gordon at telephone number	(617) 832-1000.	
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Full name of fourth joint inventor (given name, family name): Philip Kim Inventor's signature: Residence: New York, NY Post Office Address: 452 Riverside Drive, Apt. 22, New York, NY 10027	Date:
Full name of fifth joint inventor (given name, family name):	Date: Citizenship: